

Datasheet: MCA1473

Description:	MOUSE ANTI CHICKEN CD3
Specificity:	CD3
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	CT-3
Isotype:	IgG1
Quantity:	0.5 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/50
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Chicken
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared from ascites
Buffer Solution	Borate buffered saline
Preservative Stabilisers	None present
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml

Immunogen	Chicken thymocytes and Ig -ve peripheral blood mononuclear cells.
External Database Links	<p>UniProt: Q98910 Related reagents</p> <p>Entrez Gene: 396062 CD3E Related reagents</p>
RRID	AB_321244
Fusion Partners	Lymph node cells from immunised Balb/c mice were fused with cells from the mouse P3-X63Ag8.653 myeloma cell line.
Specificity	<p>Mouse anti Chicken CD3, clone CT-3 recognizes the chicken CD3 cell surface antigen expressed by T cells (Chen <i>et al.</i> 1986). The antibody also co-precipitates a ~90 kDa heterodimer from digitonin solubilised T cell lysates, which can be reduced to two polypeptides of ~40 kDa and ~50 kDa.</p> <p>In the chicken, CD3 is expressed by approximately 30% of thymocytes, 70% of peripheral blood mononuclear cells, but <1% of cells in the bursa and bone marrow.</p>
Flow Cytometry	Use 50ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> Chen, C.L. <i>et al.</i> (1986) Identification of a T3/T cell receptor complex in chickens. J Exp Med. 164 (1): 375-80. Mukamoto, M. & Kodama, H. (2000) Regulation of early chicken thymocyte proliferation by transforming growth factor-beta from thymic stromal cells and thymocytes. Vet Immunol Immunopathol. 77 (1-2): 121-32. Chaussé, A.M. <i>et al.</i> (2011) Expression of toll-like receptor 4 and downstream effectors in selected cecal cell subpopulations of chicks resistant or susceptible to salmonella carrier state. Infect Immun. 79: 3445-54. Balic, A. <i>et al.</i> (2014) Visualisation of chicken macrophages using transgenic reporter genes: insights into the development of the avian macrophage lineage. Development. 141: 3255-65. Tang, Y. <i>et al.</i> (2020) Immune Modulation and the Development of Fowl Typhoid: A Model of Human Disease? Pathogens. 9 (10)Oct 15 [Epub ahead of print].
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	Guaranteed until date of expiry. Please see product label.
Health And Safety	Material Safety Datasheet documentation #10123 available at:

Information 10123: <https://www.bio-rad-antibodies.com/uploads/MSDS/10123.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [FITC](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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